

CLAIMS

I claim,

1. A method for measuring the water content within a plant comprising the steps of:

placing a sensor surface in any gravitation orientation within said plant,

placing a second electrode in the root environment,

measuring the area of said sensor surface within said plant,

measuring the electrical capacitance between a first wire connected to

said sensor surface and a second wire connected to said second

electrode in said root environment,

forming the ratio of said electrical capacitance to said area of said

surface.

2. Apparatus for measuring the water content within a plant comprising:

sensor surface means for making contact within said plant,

second electrode means for making contact with the root environment,

first wire means connected to said sensor surface means,

second wire means connected to said second electrode means,

means coupled to said first wire means and said second wire means for
measuring the electrical capacitance generated therebetween by
said plant.,

area means for measuring area of said sensor surface within said plant.

3. Apparatus as recited in claim 2 further including a plurality of sensor
surface means and means interposed between each of said sensor surface
means and said measuring means for selectively connecting each one of
the said sensor surface means to said measuring means.